

In re Patent Application of:
MCELROY ET AL
Serial No. 09/934,746
Filed: 08/22/2001

IN THE CLAIMS:

Claims 1-18 (cancelled).

19. (new) A digital communication link pre-establishment control routine, that is automatically executed by the control processor of an integrated access device (IAD), through which packetized voice and data services are supplied to a customer site, said routine being operative to automatically set operational parameters of said IAD to conform with those of various pieces of equipment employed by a service provider to deliver said packetized voice and data services, said routine comprising the steps of:

(a) determining the line rate of said digital communication link based upon one or both of stored vendor-supplied a priori negotiation information and a testing of all possible line rates;

(b) determining the type of encoding to be employed in accordance with an examination of a priori known operating modes and selectable options for said device;

(c) identifying the type of digital communication device communication protocol to be employed based upon the type of encoding determined in step (b);

(d) locating a voice gateway and voice transport protocol based upon a standards message based protocol or an iterative search through a virtual circuit address table; and

(e) configuring one or more special features of said IAD to increase throughput or enhance performance for the type of digital

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communication device communication protocol identified in step (c) and voice gateway located in step (d).

20. (new) The routine according to claim 19, wherein step (b) comprises determining whether said digital communication link is using high level data link control (HDLC), asynchronous transfer mode, or a customized (framed) ATM transport protocol.

21. (new) The routine according to claim 19, wherein step (c) comprises identifying the type of digital communication device communication protocol to be employed by examining a data stream for the presence of encoding/decoding framers known a priori and stored in memory, identifying payload specific protocol, determining whether the type of line is ATM, and identifying ATM line parameters.

22. (new) The routine according to claim 21, wherein step (c) comprises identifying the type of digital subscriber line access multiplexer communication protocol to be employed based upon the type of encoding determined in step (b).